

A NEW SLIPPER FLOWER FROM SOUTHERN PERU

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*CALCHOLARIA FAUCIFOLIA* Edwin & Wooden, sp. nov.

herba perennis erecta ad nodosa 20-30 cm alta; caules admodum non ramosis modice instructus pilis multicellularis et 2-3 jugae foliorum opposita, folia pro parte maxima radicalia, ovata ad late lance-ovata, 1.2-7.0 cm longa, 0.6-4.0 cm lata, apice acuta, base late obtusa ad subtruncata, margo duplo dentatus interdum serrulatus inter dentibus magnis, ut supra ut infra plus minusve instructa puncta elevata opaca brunne nigra et supra pilis sparse textura dispersa, infra pilis densioribus in venis elevatis plerumque positus, densissime in marginibus, laminæ sessilia ad brevissime petiolata, plerumque usque ad 1 cm, subinde in laminæ radicalis vix longioris, ad basim anguste alata, folia suprema amplexicaula; inflorescentia cincinnata ex apicem caules nascentia rare dichasiate vel uniflora axillaris foliis supremis, et pedunculi et pedicelli et calycis lobi pilis mixtis multicellularis et glandularis et eglandularis instructus, et pecunculi et pedicelli ad apicem inflorescentia breviore et pilia densiore ad apicem pedunculos, pedicellos brevissime et densissime instructi, calycis lobi plerumque ovata subinde oblonga ovata 2.0-4.0 mm longa, 2.0-3.0 mm lata, variabile in flores margine integra vel subinde in medio dente singularis instructi unilateralis; corolla lute virida vel lutea, extus ut videtur granularia, sub lente (45x) densissime pilis brevis egland-vel glandularis intus ut videtur glabra, labium superum quam calycem lobi longiore, 2.5-6.0 mm longum, labium inferum 5.0-12.0 mm longum, circa 2x quam superum longiore, saccata medio ad 2/3 suz longitudina, nectarium annulatum bene evolutum, antherae in graciles filamenteus usque ad duplo longitudino cellularia, cellularia divaricata, subaequalia, fere longiora quam latiora, jugo ca 2.5 mm longa, ovarium dense glandularos, stylus gracilis 2.0-3.0 mm longus; fructa ignota.

Erect to nodding perennial herb 20-30 cm tall; stems essentially unbranched with moderate vesture of multicellular hairs and 2-3 pairs of opposite leaves; leaves mostly radicle, ovate to broadly lance-ovate, 1.2-7.0 cm long and 0.6-4.0 cm wide, apex acute, base broadly obtuse to sub-truncate, margin doubly dentate, sometimes serrulate between larger teeth, both leaf surfaces more or less densely beset with raised, gleaming, brownish-black punctations, vesture of multicellular hairs,

above scattered sparsely over surface, below more dense, but located chiefly on elevated veins, most dense on leaf margins; blades sessile to very short petiolate, usually not exceeding 1 cm, occasionally slightly longer on radicle leaves, narrowly winged to base, upper leaves amplexicaul; inflorescences dichasiate, arising from stem apices or (rarely) dichasiate or singly-flowered from upper leaf axils; peduncles, pedicels, and both surfaces of calyx lobes with a mixture of multi-cellular glandular and eglandular hairs, flower stalks becoming shorter and vesture more dense toward apices of peduncles, pedicels shortest and most densely clothed; calyx lobes mostly ovate, occasionally oblong-ovate, 2.0-4.0 mm long, 2.0-3.0 mm wide, lobes mostly of different sizes on each flower, margins entire, or occasionally with a single tooth at about the middle on one side only; corolla yellow-green to yellow, externally appearing granular, at higher magnification (45x) a very dense vesture of short hairs, gland-tipped hairs also (variously) present, internally appearing glabrous, upper lip 2.5-6.0 mm long, longer than the calyx lobes, lower lip 5.0-12.0 mm long, ca 2x as long as upper, saccate 1/2 to 2/3 its length, nectary annulate, well-developed; anthers on slender filaments up to 2x as long as anther cells, divaricate, cells slightly subequal, little longer than wide, both cells ca 2.5 mm long; ovary densely glandular, style slender, 2-3 mm long; capsule not seen.

Type: PERU: Arequipa: Arequipa-Puno Road above Chiguata, alt. 4050 m, Oct. 23, 1963, Straw 2313 (Holotype F!). Paratype PERU: Arequipa: Pichu Pichu Range, alt. 4050 m, Jan. 5, 1937, Stafford 670, (MO).

Can be confused with caulescent forms of C. corymbosa R & P, but is easily separable by upper lip to lower (lower lip not 4-5x as long as upper) and upper lip to calyx (upper lip not shorter than calyx lobes) relationships.